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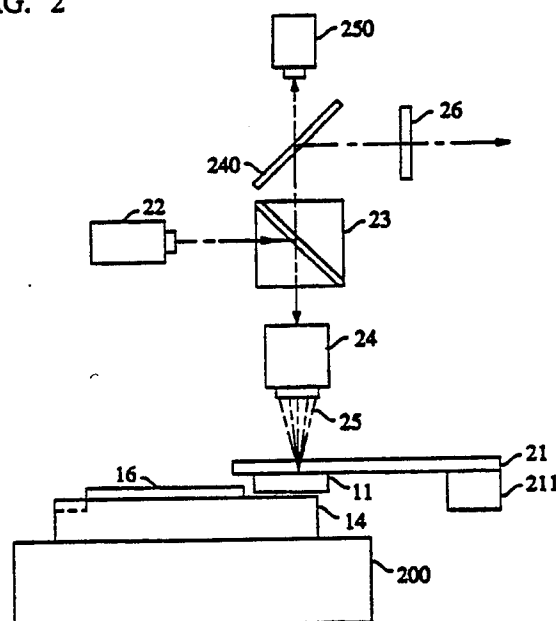
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(54) **Method of making an article comprising an opto-electronic device and an optical waveguide coupled thereto.**

(57) A method for aligning an opto-electronic device such as a semiconductor laser (11) to a waveguide on a substrate (14) is disclosed. The method comprises placing the device onto the substrate such that it is in rough alignment with the waveguide (18), optically pumping (25) the device such that the device emits electromagnetic radiation, with some of the emitted radiation being coupled into the waveguide and detected by appropriate means. If indicated by the detector signal, the position of the device is then adjusted until the desired degree of coupling is attained, whereupon the device is mechanically secured to the substrate and appropriate electrical connections made between device and substrate. Devices useful in the practice of the method typically comprise a window in their top metalization layer.

FIG. 2**EP 0 331 336 A3**



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EUROPEAN SEARCH REPORT

Application Number

EP 89 30 1715

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-3 808 549 (R.D. MAURER) * Figures 1,2; column 2, lines 49-68; column 3, lines 1-68; column 4, lines 1-42 *	1,4	G 02 B 6/42

A	IBM TECHNICAL DISCLOSURE BULLETIN, vol. 23, no. 5, October 1980, pages 1760-1761, New York, US; B.L. BALLIET et al.: "Feature for simplifying assembly of fiber-optic modules" * Whole document *	1,4	

A	EP-A-0 126 003 (ETAT FRANCAIS) * Figures 1,2,3; abstract; claims *	1,3,4	

A	US-A-4 084 130 (W.C. HOLTON) * Figures 1,8a,8b; column 3, lines 63-68; column 4, lines 1-49 *	1	

A,D	EP-A-0 006 042 (THOMSON-CSF) * Figure 1; claims *	1,3,4	

The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		16 November 90	MATHYSSEK K.
CATEGORY OF CITED DOCUMENTS			
X: particularly relevant if taken alone		E: earlier patent document, but published on, or after the filing date	
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O: non-written disclosure		-----	
P: intermediate document		&: member of the same patent family, corresponding document	
T: theory or principle underlying the invention			